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**Title:** **JP62154555A2: BATTERY**
**Derwent Title:** Battery sealing material - comprising isobutylene! polymer contg. wax  
NoAbstract Dwg 1/1 [\[Derwent Record\]](#)
**Country:** **JP** Japan

**Kind:** **A** (See also: [JP5058219B4](#))

**Inventor:** **YANAGI TOSHIO;**  
**GOSHI YOSHIHIRO;**
**Assignee:** **NIPPON PETROCHEM CO LTD**  
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**Published / Filed:** **1987-07-09 / 1985-12-27**
**Application** **JP1985000292922**
**Number:**
**IPC Code:** **H01M 2/08;**
**Priority Number:** 1985-12-27 **JP1985000292922**
**Abstract:** **PURPOSE:** To provide a battery having good electrolyte leakage resistance by using a sealant comprising isobutylene family polymer containing wax.

**CONSTITUTION:** A gap 5 in a battery sealing part is sealed with a sealant 4 made of a polymer mainly comprising isobutylene having a mean molecular weight of 700 ~ 10,000 containing 1 ~ 30wt.% wax. As the wax, animal and plant wax and preferably hydrocarbon wax such as paraffin wax, microcrystalline wax, polyethylene wax, and atactic polypropylene (APP) wax is used. Isobutylene polymer having mean molecular weight less than 700 has low viscosity and its sealing ability is insufficient. isobutylene polymer having mean molecular weight exceeding 10,000 has too high viscosity and it makes coating difficult.

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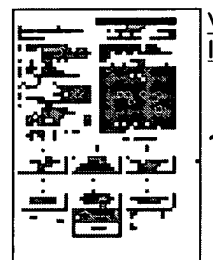
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|-----|---------------------------|------------|--------------------|--------------|--|
|     | <a href="#">US6586912</a> | 2003-07-01 | Tsukamoto; Hisashi | Quallion LLC | Method and apparatus for amplitude limiting battery temperature spikes |

**Other Abstract** DERABS C87-231158 DERC87-231158


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(19)

(11) Publication number: **62154:**

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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **60292922**(51) Intl. Cl.: **H01M 2/08**(22) Application date: **27.12.85**

|   |   |
|---|---|
| (30) Priority:  | (71) Applicant: <b>NIPPON PETROCHEM CO LT</b>                 |
| (43) Date of application publication: <b>09.07.87</b> | (72) Inventor: <b>YANAGI TOSHIO</b><br><b>GOSHI YOSHIHIRO</b> |
| (84) Designated contracting states:                   | (74) Representative:  |

**(54) BATTERY****(57) Abstract:**

**PURPOSE:** To provide a battery having good electrolyte leakage resistance by using a sealant comprising isobutylene family polymer containing wax.

**CONSTITUTION:** A gap 5 in a battery sealing part is sealed with a sealant 4 made of a polymer mainly comprising isobutylene having a mean molecular weight of 700 ~ 10,000 containing 1 ~ 30wt.% wax. As the wax, animal and plant wax and preferably hydrocarbon wax such as paraffin wax, microcrystalline wax, polyethylene wax, and atactic polypropylene (APP) wax is used. Isobutylene polymer having mean molecular weight less than 700 has low viscosity and its sealing ability is insufficient. isobutylene polymer having mean molecular weight exceeding 10,000 has too high viscosity and it makes coating difficult.

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